Daily Report June 8, 2010

Ocean Veritas Lauren Tom and Krystle Chavarria

- 1. Sampling begins (06:30), technical difficulties and practice drop, actual drop time (08:00)
- 2. Tasks: Krystle=DNA, RNA, Protein, Lauren=INT, AODC, Stable Isotope, VOA Analysis, Nutrient Chemistry, Culturing
- 3. Decided to keep filtering 6L for DNA, RNA, and Protein at the surface and 2L for DNA, RNA, and Protein for multiple depths whenever a plume is detected by the CTD. When no plume is detected, we will only filter the surface. Based on Yvette's extraction and PCR results (from a filtered volume of 800mL from 300m) we decided to reduce the volume filtered in order to cover a broader range of depths in and around a plume.
- 4. First site: OV027
 - Sampled the surface, no plume was detected, we sampled multiple depths to get a full profile without a plume.
 - OV027-surface: INT, AODC, DNA (), RNA (), Protein (), Stable Isotope, VOA, Nutrient Chemistry. One RNA filter dropped and had to be discarded (600mL), Culturing
 - OV02701: INT, AODC, DNA (0.5L), RNA (0.5L), Protein (0.5L), Stable Isotope, VOA, Nutrient Chemistry
 - OV02702: INT, AODC, DNA (2.4L), RNA (2.4L), Protein (2.5L), Stable Isotope, VOA, Nutrient Chemistry
 - OV02703: INT, AODC, DNA (2.6L), RNA (2.6L), Protein (2.7L), Stable Isotope, VOA, Nutrient Chemistry
 - OV02704: INT, AODC, DNA (2.1L), RNA (2.1L), Protein (2.1L), Stable Isotope, VOA, Nutrient Chemistry
 - OV02705: INT, AODC, DNA (2.5L), RNA (2.5L), Protein (2.5L), Stable Isotope, VOA, Nutrient Chemistry
- 5. Second site: OV028
 - Sampled the surface only, no plume was detected.
 - OV028-surface: INT, AODC, DNA (6.1L), RNA (6.1L), Protein (6.1L), Stable Isotope, VOA, Nutrient Chemistry, Culturing
- 6. Third site: OV029
 - Sampled surface, no plume detected, we sampled multiple depths for everything except filtering (if there was some sample left over, we filtered for DNA).
 - OV029-surface: INT, AODC, DNA (5.9L), RNA (5.9L), Protein (5.9L), Stable Isotope, VOA, Nutrient Chemistry
 - OV02902: Cracked niskin, no sample.
 - OV02903: INT, AODC, DNA (500), Stable Isotope, VOA, Nutrient Chemistry, Culturing
- 7. Fourth site: OV030
 - Sampled the surface, no plume detected, we sampled from plume depth and saved 2L of unfiltered sample for Terry.
 - OV030-surface: INT, AODC, DNA (6L), RNA (6L), Protein (6L), Stable Isotope, VOA, Nutrient Chemistry
 - OV03002: INT, AODC, DNA (450) Stable Isotope, VOA, Nutrient Chemistry, Culturing. Will send Terry 2L of sample from 960m to use as background (plume depth, but no plume)

- 8. Fifth site: OV031
 - Sampled the surface, no plume detected, we sampled from plume depth and saved 2L of unfiltered sample for Terry.
 - OV031-surface: INT, AODC, DNA (5.8L), RNA (5.8L), Protein (5.8L), Stable Isotope, VOA, Nutrient Chemistry
 - OV03102: INT, AODC, DNA (450) Stable Isotope, VOA, Nutrient Chemistry, Culturing. Will send Terry 2L of sample from 925m to use as background (plume depth, but no plume).
- 9. Did not detect any plumes today.
- 10. Finished processing (23:30).